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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,544	08/25/2003	Alexandros Makriyannis	UCONAP/207/US	3121

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EXAMINER

AULAKH, CHARANJIT

ART UNIT PAPER NUMBER

1625

DATE MAILED: 06/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/647,544

Applicant(s)

MAKRIYANNIS ET AL.

Examiner

Charanjit S. Aulakh

Art Unit

1625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 February 2005.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,5-31 and 41-44 is/are pending in the application.
4a) Of the above claim(s) 7-10,24 and 25 is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1,2,5,6,11-20,43 and 44 is/are rejected.
7) ☒ Claim(s) 21-23, 26-31, 41 and 42 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. According to paper filed on Feb. 16, 2005, the applicants have canceled claims 3, 4 and 32-40; amended claims 1, 2 and 6-31 and furthermore, have added new claims 41-44.
2. Claims 1, 2, 5-31 and 41-44 are now pending in the application. Claims 7-10, 24 and 24 are withdrawn from further consideration as being drawn to non-elected subject matter.

Response to Arguments

3. Applicant's arguments filed on Feb. 16, 2005 have been fully considered but they are not persuasive. First of all, the election was treated as an election without traverse as stated in the last office action and therefore, applicants arguments regarding restriction requirement are moot. Election of group IV was acknowledged in the last office action. The elected group is directed to exemplified compounds 9-16 in table 1. According to this elected group, W represents C=O, Z represents O, Y represents N, R2 represents O and R1 represents substituents other than H and ring C is an aromatic ring. The applicants need to amend claims to read upon the elected group since the election was without traverse. In regard to indefiniteness rejections, the applicants have amended claims to delete the word---comprising--- in all claims except in claim 11. In regard to claim 1, the examiner does not agree with the applicants arguments that claim recites active steps and furthermore, the specification defines fluorescence. On page 3, lines 26-27, the specification teaches that the instant compounds are intrinsically fluorescent due to the inherent property. In view of this, it is not clear why the compound needs to

be excited and furthermore, what is being used to excite it. The examiner also does not agree with the applicants arguments that the claim as written encompasses both in vitro and in vivo methods. In regard to claim 20, the values of variables R2-R5 are still not defined. The examiner also does not agree with the applicants arguments regarding claims 17-20 that various terms objected are clear.

NEW GROUNDS OF REJECTION

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 2, 5, 6, 11-20, 43 and 44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1, 2 and 5, the values of variables R1-R5 is not defined.

In claims 6 and 11-20, it is not clear what is being used to excite the cannabinoid compound? Also, is this method in vivo method or in vitro method?

In claims 43 and 44, it is not clear which specific cannabinoid receptor is being stimulated and furthermore, how this stimulation is being assessed in vivo? What happens following stimulation of cannabinoid receptor?

Conclusion

6. All rejections under 35 U.S.C. 101 and 112, second paragraph are maintained for the reasons of record.

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7. Objection of claims 1, 2, 5, 6, 11-23, 26-31 and 41-44 for containing non-elected subject matter is maintained for the reasons of record.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

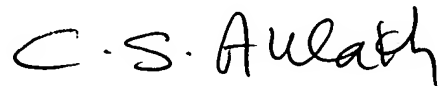
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is (571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571)272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Charanjit S. Aulakh
Primary Examiner
Art Unit 1625